

EXECUTIVE SUMMARY

Prepared March 9, 1994

Mine Name: <u>County Canyon Mine</u>	I.D. No: <u>M/023/024</u>
Operator: <u>Ash Grove Cement Company</u>	County: <u>Juab</u>
<u>P.O. Box 51</u>	New/Existing: <u>New (Small to Large Mine)</u>
<u>Nephi, Utah 84648</u>	Mineral Ownership: <u>BLM (federal)</u>
	Surface Ownership: <u>BLM (federal)</u>
Telephone: <u>(801) 857-2380</u>	Mine Claim No.(s): <u>AL#1 - 279003,</u>
	<u>AL#2 - 279004</u>
Contact Person: <u>Duane Crutchfield, Plant Manager</u>	Permit Term: <u>Life of Mine</u>

Life of Mine: 42 year pit life

Legal Description: NW/4 of the SW/4 Section 25, Township 12 South, Range 2 1/2 West (Quarry), and the NE/4 of Section 1, Township 12 South, Range 3 West (access road corridor), SLBM, Juab County, Utah

Mineral(s) to be Mined: High aluminum shale

Mining Methods: shallow open pit mining methods - blasting and dozing ore, loading onto trucks, hauling 20 miles to Ash Grove Cement Plant near Leamington, Utah for processing/refining.

Acres to be Disturbed: approximately 22

Present Land Use: Livestock grazing, wildlife habitat, dispersed recreation, hunting, mining

Postmining Land Use: Same as above

Variances from Reclamation Standards (Rule R647) Granted: R647-4-111.8 (roads)

Soils and Geology:

Soil Description: Approximately 8 inches of unconsolidated colluvium and alluvium overlies the shale and is the growth medium for the local vegetation in the quarry area. This growth medium will be stripped and stockpiled for reclamation purposes near the top of the mine site.

pH: not available

Special Handling Problems: none anticipated

Geology Description: The shale deposit is classified as the Chiulos Member of the Great Blue Formation. The mine area is bounded by the Canyon Range and Pavant Thrust faults. The shale is steeply dipping suggesting local folding and faulting. High angle faults and fractures are common in the deposit. The Chiulos shale in the quarry area is dark grey to black in color weathering to a light grey to light brown.

Hydrology:

Ground Water Description: Exact depth to ground water unknown. Exploratory drilling has not intercepted any groundwater in the mine area. Water table is apparently well below the proposed depth of the pit to be mined.

Surface Water Description: No intermittent or perennial drainages. An ephemeral drainage drains the small canyon containing the mine plan area. Operations will not impact this drainage

Water Monitoring Plan: None required.

Ecology:

Vegetation Type(s); Dominant Species: Pinyon/Juniper, Big Sagebrush, Cliff Rose, Antelope Bitterbrush, some wheatgrass species - (Quarry area); Indian Ricegrass, Sagebrush, Rabbitbrush, Big Sage, Globemallow, Juniper, Bottlebrush Squirreletail, Bluebunch Wheatgrass, Matchweed - (access road corridor).

Percent Surrounding Vegetative Cover: @15% (Quarry area), @30% (access road)

Wildlife Concerns: No impacts to threatened, endangered or sensitive species anticipated, some temporary displacement of local wildlife species anticipated. Wildlife should return to the site following reclamation.

Surface Facilities: None

Mining and Reclamation Plan Summary:

During Operations:

Ash Grove Cement Company (AGCC) will mine a shallow open pit for aluminum shale. Mining will involve blasting and dozing of the shale deposit. Mined material will be loaded onto haul trucks and taken @20 miles to the Ash Grove Cement Plant near Leamington, Utah and used in the processing of cement. Approximately 340,000 tons of shale will be mined during the first 5 years of activity. An alternate 1.8 mile haul road will be constructed by AGCC intercepting portions of the existing @3.3 mile county/BLM road accessing the mine site area.

After Operations:

AGCC will reduce quarry highwalls by blasting, backfilling and regrading to slopes no steeper than 3h:1v. Stockpiled plant growth medium will be dozed over the regraded slopes. Roads and pads will be ripped and regraded where appropriate. All reclaimed areas will be mulched, fertilized and reseeded with an approved seed mixture. The new mine access road will be reclaimed after mining is terminated. Portions of the existing county/BLM access road have an approved postmine use.

Surety:

Amount: \$46,600 (1997 dollars)

Form: Two surety bonds (\$21,600 - BLM) and (\$23,000 - DOGM)

Renewable Term: 5-year